

CLAIMS

1. Greywater recycling system, primarily for the economical flushing of toilets, consisting of one or more tanks (1), bath tub (22), a washing machine (30) provided with a primary water pump (21), water supply pipe (3), greywater pipe (19), flushing conduit (8), flushing valve (7), and in the tank (1) a floating ball (6) is characterised, that the floating ball (6) is fixed by means of a pivoted support arm (16) to the side wall of the tank (1) allowing it to swing in vertical plane, there is a greywater column (11) above the floating ball (6), and an actuating shaft (15) fixed onto the floating ball (6), the actuating shaft (15) passing through the greywater column (11) above the floating ball (6) is connected to the clean water fill valve (4) of the water supply pipe (3).
2. Greywater recycling system according to claim 1, wherein the washing machine (30) being connected to the bath tub (22) with a greywater suction pipe (32) is provided with a secondary water pump (31), which secondary water pump (31), is connected to the tank (1) by means of a secondary greywater drain pipe (35).
3. Greywater recycling system according to claim 2, wherein there is an in-line water sensor (36) mounted before the secondary water pump (31) enabling the secondary water pump (31) to start automatically, and a non-return valve (38) is mounted into the secondary greywater drain pipe (35).
4. Greywater recycling system according to any of claims 1 to 3, wherein there is a stopping member (18) fixed to the wall of the tank (1), determining the uppermost position of the floating ball (6) closing the clean water fill valve (4) as well as the ratio of greywater (11) and clean supply water (12).
5. Greywater recycling system according to any of claim 1 to 4, wherein the primary water pump (21) is connected to the tank (1) by means of the primary greywater drain pipe (27), which primary greywater drain pipe (27) is provided with a non-return valve (38).

6. Greywater recycling system according to any of claim 1 to 5, wherein the greywater tube (19) is connected through the greywater valve (2) to the primary greywater drain pipe (27), and in given cases to the secondary greywater drain pipe (35).

7. Greywater recycling system according to any of claim 1 to 6, wherein on the outlet of the greywater pipe (19) there are one or more filtering units (13) suitably mounted within the tank (1).

8. Greywater recycling system according to any of claim 1 to 7, wherein the tank (1) has a compensating air orifice (17) for the compensation of the atmospheric pressure.

9. Greywater recycling system according to any of claim 1 to 8, wherein the tank (1) is provided with an overflow tube (10), the diameter of which is greater than or equal to that of the greywater pipe (19).